





Technical Data Sheet

DELRIN® 100AF natural full strength - Stock Shapes (rods, plates, tubes)

Chemical Designation

POM-H (Polyacetal (Homopolymer))

Colour

brown Density

1.54 g/cm³ Fillers

PTFE fibres

The values in this data sheet are tested on a dimension outside of the standard reference dimension (rod Ø 40-60 mm).

Main features

- → excellent wear properties
- → low static friction
- → high mechanical load capacity
- → good machinability

Target Industries

- → conveyor technology
- → automotive industry
- → business machines
- → heavy duty industry
- → printing machines
- → packaging and paper machinery

Mechanical properties	condition	value	unit	test method		comment
Modulus of elasticity (tensile test)	@ 73 °F	225,000	psi	ASTM D 638		_
Tensile strength at yield	@ 73 °F	6394	psi	ASTM D 638		-
Elongation at break (tensile test)		12.4	%	ASTM D 638		-
Flexural strength	@ 73 °F	11,300	psi	ASTM D 790		-
Modulus of elasticity (flexural test)		410,000	psi	ASTM D 790		•
Compression strength	@ 73° F, 10% strain	12,900	psi	ASTM D 695		•
Compression strength	@ 73° F, 1% Strain	2,800	psi	ASTM D 695		•
Compression modulus	@ 73 °F	295,000	psi	ASTM D 695		•
Impact strength (Izod)	@ 73 °F	0.75	ft-lbs/in	ASTM D 256		-
Rockwell hardness	M Scale (R Scale)	77 (115)		ASTM D 785		
Thermal properties	condition	value	unit	test method		comment
Melting temperature		347	°F		1)	(1) injection molded data (2) injection molded data (3) injection molded data
Deflection temperature	@ 66 psi	334	°F	ASTM D 648	2)	
Deflection temperature	@264 psi	244	°F	ASTM D 648	3)	
Service temperature	Intermittent	300	°F	-		
Service temperature	Long Term	185	°F	-		
Other properties	condition	value	unit	test method		comment
Moisture absorption	@ 24 hrs, 73 °F	0.12	%	ASTM D 570		

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